

| L Number | Hits | Search Text | DB | Time stamp |
|-------------|------|---|---|---------------------|
| 1 | 205 | (seed or template) adj (layer or film) and reference adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/02/08 11:51 |
| 2 | 3 | (seed or template) adj (layer or film) near6 reference adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/02/08 11:51 |
| - | 714 | (257/295).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 08:31 |
| - | 0 | ("mram.ti,ab.").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 13:13 |
| - | 276 | mram.ti,ab. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 13:21 |
| - | 988 | ((257/295).CCLS.) or mram.ti,ab. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 13:21 |
| - | 873 | magnetic adj memory adj device | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 13:32 |
| - | 4 | ((257/295).CCLS.) or mram.ti,ab. or (magnetic adj memory adj device)) and (ferrimagnetic or ferrimagnet) adj (layer or film) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 13:38 |
| - | 8 | ((257/295).CCLS.) or mram.ti,ab. or (magnetic adj memory adj device)) and (ferrimagnetic or ferrimagnet) adj2 (layer or film) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 14:56 |
| - | 1 | ((257/295).CCLS.) or mram.ti,ab. or (magnetic adj memory adj device)) and (ferrimagnetic or ferrimagnet) adj2 (layer or film) same orient\$5 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 15:06 |
| - | 1846 | ((257/295).CCLS.) or mram.ti,ab. or (magnetic adj memory adj device) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 17:14 |
| - | 2 | ((257/295).CCLS.) or mram.ti,ab. or (magnetic adj memory adj device)) and data adj (layer or film) near15 (magnetization or magnetisation or magnetized or magnetised) near15 (turn or turning or orientation or orient or oriented) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 15:51 |
| - | 1 | ((257/295).CCLS.) or mram.ti,ab. or (magnetic adj memory adj device)) and data adj (layer or film) near15 (magnetization or magnetisation or magnetized or magnetised) near15 (turn or turning or orientation or orient or oriented) and coercivity | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 15:59 |

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| 0 | ((257/295).CCLS.) or mram.ti,ab. or (magnetic adj memory adj device)) and data adj (layer or film) near15 (magnetization or magnetisation or magnetized or magnetised) near15 (turn or turning or orientation or orient or oriented) and coercivity and ferrimagnetic | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 17:01 |
| 719 | ((257/295).CCLS.) or (magnetic adj memory adj device) and af adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 17:17 |
| 44 | (365/172).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 17:35 |
| 283 | (365/173).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 17:35 |
| 804 | ((365/171) or (365/172) or (365/173)).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 18:02 |
| 0 | ((365/171) or (365/172) or (365/173)).CCLS.) and (antiferrimagnetic or af) adj (layer of film) and (magnetic adj memory) and coercivity and (data adj storage near3 (layer or film)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 18:08 |
| 4 | ((365/171) or (365/172) or (365/173)).CCLS.) and (antiferrimagnetic or af) adj (layer of film) and (magnetic adj memory) and coercivity | USPAT; US-PGPUB | 2002/05/15 18:10 |
| 4 | ((365/171) or (365/172) or (365/173)).CCLS.) and (antiferrimagnetic or af) adj (layer of film) and (magnetic adj memory) and coercivity and (angle or orient or orientation or oriented or turn or turned or turning or rotate or rotated or rotation) | USPAT; US-PGPUB | 2002/05/15 19:32 |
| 0 | ((365/171) or (365/172) or (365/173)).CCLS.) and ((synthetic adj ferrimagnetic or sf or artificial adj ferrimagnetic) near6 (layer or film)) | USPAT; US-PGPUB | 2002/05/15 18:31 |
| 0 | ((365/171) or (365/172) or (365/173)).CCLS.) and (synthetic adj ferrimagnetic or sf or artificial adj ferrimagnetic) | USPAT; US-PGPUB | 2002/05/15 18:31 |
| 23 | (synthetic adj ferrimagnetic or sf or artificial adj ferrimagnetic) and (mram or magnetic adj memory) | USPAT; US-PGPUB | 2002/05/15 18:36 |
| 2 | (synthetic adj (ferrimagnet or ferrimagnetic) or sf or artificial adj ferrimagnetic) and (mram or magnetic adj memory).ti,ab. | USPAT; US-PGPUB | 2002/05/15 18:38 |
| 4 | ((365/171) or (365/172) or (365/173)).CCLS.) and (antiferrimagnetic or femn or af) adj (layer of film) and (magnetic adj memory) and coercivity and (angle or orient or orientation or oriented or turn or turned or turning or rotate or rotated or rotation) | USPAT; US-PGPUB | 2002/05/15 19:44 |

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| 4 | (antiferrimagnetic or femn or af) adj (layer of film) and (magnetic adj memory) and coercivity and (angle or orient or orientation or oriented or turn or turned or turning or rotate or rotated or rotation) | USPAT; US-PGPUB | 2002/05/15 19:46 |
| 4 | (antiferrimagnetic or femn or af) adj (layer of film) and (magnetic adj memory) and coercivity and (angle or orient or orientation or oriented or turn or turned or turning or rotate or rotated or rotation) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 19:48 |
| 4 | (antiferrimagnetic or femn or af) adj (layer of film) and (magnetic adj memory) and coercivity | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 19:48 |
| 17 | (antiferrimagnetic or femn or af) and (magnetic adj memory) and coercivity | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 19:51 |
| 8934 | (antiferrimagnetic or femn or af) and (hs mtj or hard-soft adj mtj) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 19:52 |
| 1 | (antiferrimagnetic or femn or af) and (hs adj mtj or hard-soft adj mtj) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 21:17 |
| 1 | "5966012".PN. | USPAT | 2002/05/15 20:52 |
| 1 | "5841692".PN. | USPAT | 2002/05/15 20:55 |
| 1 | "5801984".PN. | USPAT | 2002/05/15 20:56 |
| 1 | "5055158".PN. | USPAT | 2002/05/15 20:57 |
| 1 | "5055158".PN. | USPAT | 2002/05/15 20:58 |
| 1 | (antiferromagnetic or femn or af) and (hs adj mtj or hard-soft adj mtj) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 17:17 |
| 2 | ("5605958").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 21:24 |
| 3 | ("5650958").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 22:05 |
| 77 | magnetic adj memory and spacer adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 22:29 |
| 0 | magnetic adj memory and (spacer adj layer near12 sf) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 22:30 |

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| - | 77 | magnetic adj memory and spacer adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/15 22:48 |
| - | 7 | magnetic adj memory and (spacer adj layer near5 antiferromagnetic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 07:45 |
| - | 3 | magnetic adj memory and (spacer adj layer near5 antiferromagnetic) and (spacer near12 different) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:01 |
| - | 0 | (spacer near12 antiferromagnetic near12 different) and magnetic adj2 memory | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:02 |
| - | 5 | spacer near12 antiferromagnetic near12 different | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:45 |
| - | 295 | (365/158).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:45 |
| - | 602 | (365/171).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:46 |
| - | 44 | (365/172).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:46 |
| - | 283 | (365/173).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:46 |
| - | 3429 | (365/174).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:46 |
| - | 431 | (257/30).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:47 |
| - | 4807 | ((365/158).CCLS.) or ((365/171).CCLS.) or ((365/172).CCLS.) or ((365/173).CCLS.) or ((365/174).CCLS.) or ((257/30).CCLS.) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:47 |
| - | 179 | spacer and coercivity and antiferromagnetic | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 08:48 |
| - | 11 | ((365/158).CCLS.) or ((365/171).CCLS.) or ((365/172).CCLS.) or ((365/173).CCLS.) or ((365/174).CCLS.) or ((257/30).CCLS.) and (spacer and coercivity and antiferromagnetic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 13:56 |

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|---|-----|--|---|---------------------|
| - | 5 | ((((365/158).CCLS.) or ((365/171).CCLS.) or ((365/172).CCLS.) or ((365/173).CCLS.) or ((365/174).CCLS.) or ((257/30).CCLS.)) and (spacer and coercivity and antiferromagnetic)) and @pd<20000104 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 14:30 |
| - | 0 | mtj adj mr and world adj line and bottom adj electrode | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 14:31 |
| - | 0 | mtj adj mr and world adj line | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 14:32 |
| - | 1 | mtj adj mr and word adj line | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 14:33 |
| - | 7 | "6114719" | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 15:30 |
| - | 3 | mtj and (current near12 (magnetization or magnetized)) near12 (perpendicular or orthogonal) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 16:37 |
| - | 0 | "not pinned" and (mram or mtj) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 16:44 |
| - | 0 | "not pinned" and (mram or mtj or magneto-resistive or af adj layer) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 16:45 |
| - | 178 | (hard same soft) and (mram or mtj or magneto-resistive or af adj layer) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 16:47 |
| - | 0 | (soft-soft) and (mram or mtj or magneto-resistive or af adj layer) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 16:47 |
| - | 0 | soft-soft and (mtj or mram or magneto-resistive) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 16:49 |
| - | 11 | soft-soft | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 16:50 |
| - | 0 | soft-soft and magnetic | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 16:50 |
| - | 3 | mtj and second adj free | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/16 20:54 |

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| 17 | (spacer near12 (ru or ruthenium)) near12 (af adj layer reference adj layer or data adj layer or sens\$3 adj layer or pinned adj2 layer) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/16 22:40 |
| 3 | ((("5640343") or ("6269018") or ("5966012")).PN. | | 2002/05/16 23:13 |
| 431 | (257/30).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 08:31 |
| 68 | magnetic and ((257/30).CCLS.) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 08:32 |
| 16850 | 117/\$6.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:40 |
| 1 | electronic adj component and (rhombohedral adj crystal near12 c-axis) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:13 |
| 1 | (rhombohedral adj crystal near12 c-axis) and 257/\$6.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:14 |
| 25 | sapphire adj substrate.ti,ab. and c-axis.ti,ab. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:32 |
| 0 | sapphire adj substrate.ti,ab. and c-axis.ti,ab. and 117/\$6.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:32 |
| 6 | 117/\$6.ccls. and rhombohedral.ti,ab. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:42 |
| 1 | 117/\$6.ccls. and rhombohedral.ti,ab. and sapphire and semiconductor | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:45 |
| 6 | 148/\$6.ccls. and rhombohedral and c-axis | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:46 |
| 2 | 148/\$6.ccls. and rhombohedral and c-axis and nitride | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:51 |
| 337 | 117/950.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT | 2002/05/17 09:51 |

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| 9 | 117/950.ccls. and rhombohedral | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/05/17 09:52 |
| 54 | pinned near20 reference adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 09:00 |
| 5 | mack.in. and gao.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 09:07 |
| 0 | transverse adj (bias or biased) near15 reference adj layer.ti,ab,clm. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 09:08 |
| 2 | transverse adj (bias or biased) near15 reference adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 10:36 |
| 2 | ("5949623").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 10:40 |
| 6 | amr adj sensor and (AF or antiferromagnetic or ferrimagnetic) and reference adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 10:56 |
| 25 | ni-fe-nb and (antiferromagnetic or ferrimagnetic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 10:57 |
| 0 | (sf or synthetic) near2 (ferrimagnet or ferrimagnetism) and (mtj or magnetic) near3 (sensor or sensing adj device) and reference adj (layer or film) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 17:22 |
| 5 | (sf or synthetic) near2 (antiferromagnetism or af or afm or antiferromagnet or anti-ferromagnet or ferrimagnet or ferrimagnetism) and (mtj or magnetic) near3 (sensor or sensing adj device) and reference adj (layer or film) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 19:27 |
| 0 | activat\$3 near6 current near12 (amr or anisotropic adj magnetoresistive) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 19:28 |
| 5 | activat\$3 near6 current near12 (amr or anisotropic adj magnetoresistive or magneto-resistive) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 19:33 |
| 0 | soft near3 reference adj layer near12 (sf or artificial) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 19:34 |
| 1 | soft near3 reference adj layer and (sf or artificial) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 20:03 |

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| 0 | soft near3 reference adj layer and (sf or artificial) and (ferrimagnetic or anti-ferromagnetic or antiferromagnetic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 19:43 |
| 2 | ("5966012").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 20:13 |
| 137 | (synthetic or artificial or sf) near6 (anti-ferromagnetic or antiferromagnetic or ferrimagnetic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 20:15 |
| 36 | (synthetic or artificial or sf) near6 (anti-ferromagnetic or antiferromagnetic or ferrimagnetic) and (magnetic near6 (sensor or sensing)).ti,ab,clm. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 20:15 |
| 43 | ((synthetic or artificial or sf) near6 (anti-ferromagnetic or antiferromagnetic or ferrimagnetic) or saf) and (magnetic near6 (sensor or sensing)).ti,ab,clm. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 20:34 |
| 21 | ((synthetic or artificial or sf) near6 (anti-ferromagnetic or antiferromagnetic or ferrimagnetic) or saf) and (magnetic near6 (sensor or sensing)).ti,ab,clm. and insulat\$3 adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 20:36 |
| 0 | ((synthetic or artificial or sf) near6 (anti-ferromagnetic or antiferromagnetic or ferrimagnetic) or saf) and (magnetic near6 (sensor or sensing)).ti,ab,clm. and insulat\$3 adj layer near12 spacer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 20:36 |
| 5 | ((synthetic or artificial or sf) near6 (anti-ferromagnetic or antiferromagnetic or ferrimagnetic) or saf) and (magnetic near6 (sensor or sensing)).ti,ab,clm. and insulat\$3 adj layer and spacer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/25 20:41 |
| 7 | ((synthetic or artificial or sf) near6 (anti-ferromagnetic or antiferromagnetic or ferrimagnetic) or saf) and (magnetic near6 (sensor or sensing)).ti,ab,clm. and insulat\$3 adj layer and tunnel\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 18:39 |
| 2340 | ((257/30) or (257/295) or (365/158) or (365/171) or (365/172) or (365/173)).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 08:32 |
| 0 | ((257/30) or (257/295) or (365/158) or (365/171) or (365/172) or (365/173)).CCLS.) and reference adj layer near15 (sf or artificial or synthetic or saf) and magnetic.ti,ab,clm. and (sensor or sensing).ti,ab,clm. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 08:35 |
| 16 | ((257/30) or (257/295) or (365/158) or (365/171) or (365/172) or (365/173)).CCLS.) and (pinned or pinning or reference) adj layer near15 (sf or artificial or synthetic or saf or antiferromagnetic or anti-ferromagnetic) and magnetic.ti,ab,clm. and (sensor or sensing).ti,ab,clm. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 11:01 |
| 118 | (257/427).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 09:30 |

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| - | 0 | ((257/427).CCLS.) and reference adj layer and (anti-ferromagnetic or antiferromagnetic) and (artificial or sf or saf or synthetic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/11/26 09:33 |
| - | 0 | ((257/427).CCLS.) and reference adj layer and (anti-ferromagnetic or antiferromagnetic or ferrimagnetic) and (artificial or sf or saf or synthetic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/11/26 09:33 |
| - | 0 | ((257/427).CCLS.) and reference adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/11/26 09:34 |
| - | 1 | ((257/427).CCLS.) and (fixed or reference or pinning) adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/11/26 09:34 |
| - | 1 | ((257/427).CCLS.) and (fixed or reference or pinning or pinned) adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/11/26 09:36 |

159 (US-5145741-\$ or US-5235195-\$ or
US-5260593-\$ or US-5293560-\$ or
US-5407845-\$ or US-5298796-\$ or
US-5415126-\$ or US-5455432-\$ or
US-5477485-\$ or US-5530581-\$ or
US-5557114-\$ or US-5580380-\$ or
US-5562769-\$ or US-5604357-\$ or
US-5654208-\$ or US-5623442-\$ or
US-5714766-\$ or US-5670790-\$ or
US-6114719-\$ or US-5986858-\$ or
US-6185080-\$ or US-6243288-\$ or
US-6259586-\$ or US-6396734-\$ or
US-5852306-\$ or US-4460670-\$).did. or
(US-4462150-\$ or US-4657699-\$ or
US-4738729-\$ or US-4769686-\$ or
US-4841349-\$ or US-4893273-\$ or
US-5049950-\$ or US-5111430-\$ or
US-5740104-\$ or US-5754477-\$ or
US-5789276-\$ or US-5846859-\$ or
US-5877041-\$ or US-5786250-\$ or
US-5698869-\$ or US-5858811-\$ or
US-5976926-\$ or US-6031263-\$ or
US-6084248-\$ or US-6093937-\$ or
US-6099574-\$ or US-6130147-\$ or
US-6144581-\$ or US-6163066-\$ or
US-6166401-\$ or US-6373247-\$ or
US-6462919-\$).did. or (US-5949623-\$ or
US-6404674-\$ or US-6469878-\$ or
US-5289408-\$ or US-6201259-\$ or
US-5408377-\$ or US-6108177-\$ or
US-5966012-\$ or US-6178112-\$ or
US-6205052-\$ or US-6197439-\$ or
US-5640343-\$ or US-5793697-\$ or
US-6166948-\$ or US-6236590-\$ or
US-6306691-\$ or US-6313482-\$ or
US-6365919-\$ or US-5371383-\$ or
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US-6166319-\$ or US-6383576-\$ or
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or US-20020101692-\$ or US-20020017647-\$
or US-20020018323-\$ or US-20020085323-\$
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or US-20020036919-\$ or US-20020036331-\$
or US-20010032997-\$ or US-20010049183-\$
or US-20020024050-\$).did. or
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JP-56056677-\$ or JP-03303564-\$ or
JP-03222367-\$ or JP-06224431-\$).did. or

USPAT;
US-PGPUB;
EPO; JPO;
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(US-5585986-\$ or EP-291951-\$ or
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USPAT;
US-PGPUB;
EPO; JPO;
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| - | 0 | (360/113).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:48 |
| - | 100 | (360/324).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:49 |
| - | 7 | (360/325).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:49 |
| - | 14 | (360/326).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:49 |
| - | 49 | (360/327).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:49 |
| - | 0 | (360/113).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:49 |
| - | 166 | ((360/324).CCLS.) or ((360/325).CCLS.) or ((360/326).CCLS.) or ((360/327).CCLS.) or ((360/113).CCLS.) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:49 |
| - | 0 | ((360/324).CCLS.) or ((360/325).CCLS.) or ((360/326).CCLS.) or ((360/327).CCLS.) or ((360/113).CCLS.) and reference adj layer and magnetic adj (sensor or sensing) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:51 |
| - | 0 | ((360/324).CCLS.) or ((360/325).CCLS.) or ((360/326).CCLS.) or ((360/327).CCLS.) or ((360/113).CCLS.) and reference adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 13:51 |
| - | 30 | ((360/324).CCLS.) or ((360/325).CCLS.) or ((360/326).CCLS.) or ((360/327).CCLS.) or ((360/113).CCLS.) and (fixed or pinned or pinning) adj layer | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 14:22 |
| - | 25 | ((360/324).CCLS.) or ((360/325).CCLS.) or ((360/326).CCLS.) or ((360/327).CCLS.) or ((360/113).CCLS.) and (fixed or pinned or pinning) adj layer) and (anti-ferromagnetic or antiferromagnetic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 14:23 |
| - | 23 | ((360/324).CCLS.) or ((360/325).CCLS.) or ((360/326).CCLS.) or ((360/327).CCLS.) or ((360/113).CCLS.) and (fixed or pinned or pinning) adj layer) and (anti-ferromagnetic or antiferromagnetic) and magnetic near3 (sensing or sensor) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 14:30 |
| - | 13 | ((360/324).CCLS.) or ((360/325).CCLS.) or ((360/326).CCLS.) or ((360/327).CCLS.) or ((360/113).CCLS.) and (fixed or pinned or pinning) adj layer) and (anti-ferromagnetic or antiferromagnetic) and magnetic near3 (sensing or sensor) and (insulation or insulating or dielectric) adj (layer or film) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 14:31 |

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|---|----|--|---|---------------------|
| - | 0 | ("lai.in. and synthetic adj antiferromagnetic").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 18:34 |
| - | 2 | lai.in. and synthetic adj antiferromagnetic | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 18:34 |
| - | 2 | ("5949623").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/11/26 18:39 |
| - | 0 | (sf or synthetic adj ferrimagnetic) near12 reference adj layer near12 (pin or pinned or un-pinned or unpinned) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/02/07 16:36 |
| - | 65 | reference adj layer near12 (pin or pinned or un-pinned or unpinned) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/02/07 16:38 |
| - | 7 | reference adj layer near12 (pin or pinned or un-pinned or unpinned) and ferrimagnetic | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/02/07 18:04 |
| - | 2 | ("5966012").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/02/07 18:04 |
| - | 2 | ("5949623").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/02/07 18:04 |